

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
20 September 2001 (20.09.2001)

PCT

(10) International Publication Number  
**WO 01/68848 A2**(51) International Patent Classification<sup>7</sup>: **C12N 15/12**,  
15/62, C07K 14/47, 14/705, 16/18, G01N 33/53, C12Q  
1/6860/000,000 15 September 2000 (15.09.2000) US  
PCT/US00/309528 November 2000 (08.11.2000) US  
PCT/US00/32678

(21) International Application Number: PCT/US01/06520

1 December 2000 (01.12.2000) US  
PCT/US00/34956

(22) International Filing Date: 28 February 2001 (28.02.2001)

20 December 2000 (20.12.2000) US

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): GENEN-  
TECH, INC. [US/US]; 1 DNA Way, South San Francisco,  
CA 94080-4990 (US).

(30) Priority Data:

PCT/US00/05601	1 March 2000 (01.03.2000)	US
PCT/US00/05841	2 March 2000 (02.03.2000)	US
60/187,202	3 March 2000 (03.03.2000)	US
60/186,968	6 March 2000 (06.03.2000)	US
60/189,328	14 March 2000 (14.03.2000)	US
60/189,320	14 March 2000 (14.03.2000)	US
PCT/US00/06884	15 March 2000 (15.03.2000)	US
60/191,048	21 March 2000 (21.03.2000)	US
60/190,828	21 March 2000 (21.03.2000)	US
60/191,314	21 March 2000 (21.03.2000)	US
60/191,007	21 March 2000 (21.03.2000)	US
60/192,655	28 March 2000 (28.03.2000)	US
60/193,032	29 March 2000 (29.03.2000)	US
60/193,053	29 March 2000 (29.03.2000)	US
PCT/US00/08439	30 March 2000 (30.03.2000)	US
60/194,647	4 April 2000 (04.04.2000)	US
60/194,449	4 April 2000 (04.04.2000)	US
60/196,820	11 April 2000 (11.04.2000)	US
60/195,975	11 April 2000 (11.04.2000)	US
60/196,000	11 April 2000 (11.04.2000)	US
60/196,187	11 April 2000 (11.04.2000)	US
60/196,690	11 April 2000 (11.04.2000)	US
60/198,121	18 April 2000 (18.04.2000)	US
60/198,585	18 April 2000 (18.04.2000)	US
60/199,654	25 April 2000 (25.04.2000)	US
60/199,397	25 April 2000 (25.04.2000)	US
60/199,550	25 April 2000 (25.04.2000)	US
60/201,516	3 May 2000 (03.05.2000)	US
PCT/US00/13705	17 May 2000 (17.05.2000)	US
PCT/US00/14042	22 May 2000 (22.05.2000)	US
PCT/US00/14941	30 May 2000 (30.05.2000)	US
PCT/US00/15264	2 June 2000 (02.06.2000)	US
60/209,832	5 June 2000 (05.06.2000)	US
PCT/US00/20710	28 July 2000 (28.07.2000)	US
09/644,848	22 August 2000 (22.08.2000)	US
PCT/US00/23328	24 August 2000 (24.08.2000)	US

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BAKER, Kevin**,  
P. [GB/US]; 14006 Indian Run Drive, Darnestown, MD  
20878 (US). **CHEN, Jian** [CN/US]; 121 York Drive,  
Princeton, NJ 08540 (US). **DESNOYERS, Luc** [CA/US];  
2050 Stockton Street, San Francisco, CA 94133 (US).  
**GODDARD, Audrey** [CA/US]; 110 Congo Street,  
San Francisco, CA 94131 (US). **GODOWSKI, Paul, J.**  
[US/US]; 2627 Easton Drive, Burlingame, CA 94010 (US).  
**GURNEY, Austin, L.** [US/US]; 1 Debbie Lane, Belmont,  
CA 94002 (US). **PAN, James** [CA/US]; 2705 Coronet  
Boulevard, Belmont, CA 94002 (US). **SMITH, Victoria**  
[AU/US]; 19 Dwight Road, Burlingame, CA 94010 (US).  
**WATANABE, Colin, K.** [US/US]; 128 Corliss Drive,  
Moraga, CA 94556 (US). **WOOD, William, I.** [US/US];  
35 Southdown Court, Hillsborough, CA 94010 (US).  
**ZHANG, Zemin** [CN/US]; 876 Taurus Drive, Foster City,  
CA 94404 (US).(74) Agents: **BARNES, Elizabeth, M.** et al.; c/o Genentech,  
Inc., MS49, 1 DNA Way, South San Francisco, CA 94080-  
4990 (US).(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,  
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,  
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,  
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian  
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European  
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

(57) Abstract: The present invention is directed to novel polypeptides and to nucleic acid molecules encoding those polypeptides. Also provided herein are vectors and host cells comprising those nucleic acid sequences, chimeric polypeptide molecules comprising the polypeptides of the present invention fused to heterologous polypeptide sequences, antibodies which bind to the polypeptides of the present invention and to methods for producing the polypeptides of the present invention.

WO 01/68848 A2



**Published:**

— without international search report and to be republished  
upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

Figure 239 shows a nucleotide sequence (SEQ ID NO:239) of a native sequence PRO1156 cDNA, wherein SEQ ID NO:239 is a clone designated herein as "DNA59853-1505".

Figure 240 shows the amino acid sequence (SEQ ID NO:240) derived from the coding sequence of SEQ ID NO:239 shown in Figure 239.

5 Figure 241 shows a nucleotide sequence (SEQ ID NO:241) of a native sequence PRO1098 cDNA, wherein SEQ ID NO:241 is a clone designated herein as "DNA59854-1459".

Figure 242 shows the amino acid sequence (SEQ ID NO:242) derived from the coding sequence of SEQ ID NO:241 shown in Figure 241.

Figure 243 shows a nucleotide sequence (SEQ ID NO:243) of a native sequence PRO1128 cDNA, wherein SEQ ID NO:243 is a clone designated herein as "DNA59855-1485".

10 Figure 244 shows the amino acid sequence (SEQ ID NO:244) derived from the coding sequence of SEQ ID NO:243 shown in Figure 243.

Figure 245 shows a nucleotide sequence (SEQ ID NO:245) of a native sequence PRO1248 cDNA, wherein SEQ ID NO:245 is a clone designated herein as "DNA60278-1530".

15 Figure 246 shows the amino acid sequence (SEQ ID NO:246) derived from the coding sequence of SEQ ID NO:245 shown in Figure 245.

Figure 247 shows a nucleotide sequence (SEQ ID NO:247) of a native sequence PRO1127 cDNA, wherein SEQ ID NO:247 is a clone designated herein as "DNA60283-1484".

Figure 248 shows the amino acid sequence (SEQ ID NO:248) derived from the coding sequence of SEQ ID NO:247 shown in Figure 247.

20 Figure 249 shows a nucleotide sequence (SEQ ID NO:249) of a native sequence PRO1316 cDNA, wherein SEQ ID NO:249 is a clone designated herein as "DNA60608-1577".

Figure 250 shows the amino acid sequence (SEQ ID NO:250) derived from the coding sequence of SEQ ID NO:249 shown in Figure 249.

25 Figure 251 shows a nucleotide sequence (SEQ ID NO:251) of a native sequence PRO1197 cDNA, wherein SEQ ID NO:251 is a clone designated herein as "DNA60611-1524".

Figure 252 shows the amino acid sequence (SEQ ID NO:252) derived from the coding sequence of SEQ ID NO:251 shown in Figure 251.

Figure 253 shows a nucleotide sequence (SEQ ID NO:253) of a native sequence PRO1125 cDNA, wherein SEQ ID NO:253 is a clone designated herein as "DNA60619-1482".

30 Figure 254 shows the amino acid sequence (SEQ ID NO:254) derived from the coding sequence of SEQ ID NO:253 shown in Figure 253.

Figure 255 shows a nucleotide sequence (SEQ ID NO:255) of a native sequence PRO1158 cDNA, wherein SEQ ID NO:255 is a clone designated herein as "DNA60625-1507".

35 Figure 256 shows the amino acid sequence (SEQ ID NO:256) derived from the coding sequence of SEQ ID NO:255 shown in Figure 255.

Figure 257 shows a nucleotide sequence (SEQ ID NO:257) of a native sequence PRO1124 cDNA, wherein SEQ ID NO:257 is a clone designated herein as "DNA60629-1481".

Table 8 (cont')

	<u>Molecule</u>	<u>is overexpressed in:</u>	<u>as compared to:</u>
	PRO1028	breast tumor	universal normal control
	PRO1028	cervical tumor	universal normal control
5	PRO1027	colon tumor	universal normal control
	PRO1027	lung tumor	universal normal control
	PRO1027	breast tumor	universal normal control
	PRO1140	colon tumor	universal normal control
	PRO1140	breast tumor	universal normal control
10	PRO1291	colon tumor	universal normal control
	PRO1291	breast tumor	universal normal control
	PRO1105	colon tumor	universal normal control
	PRO1105	lung tumor	universal normal control
	PRO1026	lung tumor	universal normal control
	PRO1026	prostate tumor	universal normal control
15	PRO1104	colon tumor	universal normal control
	PRO1104	lung tumor	universal normal control
	PRO1104	breast tumor	universal normal control
	PRO1100	colon tumor	universal normal control
	PRO1100	lung tumor	universal normal control
20	PRO1100	breast tumor	universal normal control
	PRO1100	rectal tumor	universal normal control
	PRO1141	lung tumor	universal normal control
	PRO1772	colon tumor	universal normal control
	PRO1772	lung tumor	universal normal control
25	PRO1772	breast tumor	universal normal control
	PRO1772	cervical tumor	universal normal control
	PRO1064	colon tumor	universal normal control
	PRO1064	lung tumor	universal normal control
	PRO1379	colon tumor	universal normal control
30	PRO1379	lung tumor	universal normal control
	PRO1379	cervical tumor	universal normal control
	PRO3573	lung tumor	universal normal control
	PRO3573	breast tumor	universal normal control
	PRO3566	colon tumor	universal normal control
35	PRO3566	lung tumor	universal normal control
	PRO1156	lung tumor	universal normal control
	PRO1156	breast tumor	universal normal control
	PRO1156	prostate tumor	universal normal control
	PRO1098	colon tumor	universal normal control
40	PRO1098	lung tumor	universal normal control
	PRO1098	rectal tumor	universal normal control
	PRO1128	colon tumor	universal normal control
	PRO1128	lung tumor	universal normal control
	PRO1128	breast tumor	universal normal control
45	PRO1248	lung tumor	universal normal control
	PRO1248	breast tumor	universal normal control
	PRO1127	colon tumor	universal normal control
	PRO1127	lung tumor	universal normal control
	PRO1127	breast tumor	universal normal control
50	PRO1316	colon tumor	universal normal control
	PRO1316	lung tumor	universal normal control
	PRO1316	breast tumor	universal normal control
	PRO1197	colon tumor	universal normal control
	PRO1197	lung tumor	universal normal control
55	PRO1197	breast tumor	universal normal control